



Toward a biophysical carbon accounting in Africa and perspectives for REDD and CDM

*Pointe-Noire (Republic of Congo)
17-19 March 2010*

PROGRAMME – Wednesday, 17 March 2010

- 08.00-09.00 *Registration*
- 9.00-10.30 *Opening session and Welcome address chaired by the Ministry of Research*
 - Official opening session by the Ministry of Research of Congo (Henri Ossébi)
 - Welcome in Pointe-Noire (Y. Nouvellet, L. Saint-André)
 - The CarboAfrica Project (R. Valentini)

10.30 – Coffee Break

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| 11.00 <i>Impact of vegetation fires on African GHG budget</i> (Chair: B. A. El Tahir; co-chair: D. Diangana) |
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11.00 - A comparison of active fire detection and burned area mapping from satellite in the Congo basin (Balzter H.)

11.25 - A statistical burned area model for the use in dynamic vegetation models (Lehsten V.)

11.50 - Environmental indicators of climate vulnerability for Africa from remote sensing (Balzter H.)

12.15 Lunch

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| 14.00 <i>Terrestrial Carbon Observations in Africa and Ecosystem fluxes</i> (Chair: D. Papale) |
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14.00 - Spatial and temporal variability of carbon fluxes in African ecosystems - a CarboAfrica synthesis study (Kutsch W.)

14.25 - Carbon, water and energy fluxes in a West African humid tropical ecosystem (Balogun A.)

14.50 - Heterogeneity of carbon fluxes in miombo woodlands - revised analysis (Merbold L.)

15.15 - Carbon sequestration, radiation use efficiency and water use efficiency of a tropical grassland annually burned in Congo (De Grandcourt A.)

15.40 – Coffee Break

16.00 - CO₂ fluxes at the AMMA Sahelian sites: a comparison between agro-pastoral and pastoral Sahel (Mougin E.)

16.25 - Carbon sequestration, water-use, and water-use efficiencies in eucalypt plantations in Congo (Nouvellon Y.)

16.50 - Measuring fluxes over a *Colophospermum mopane* savanna (Nickless A.)

17.15 - The carbon cycle in an African tropical forest (Valentini R.)

All sessions will be co-chaired by a Congolese Researcher from DGRST

17.40– Close of the first day

19.00 – Conference Dinner

PROGRAMME – Thursday, 18 March 2010

09.00 Terrestrial Carbon Observations in Africa and Ecosystem fluxes (Chair: W. Kutsch)

09.00 - Impact of seasonal drought and age-related changes in litter inputs on the temporal trends in soil CO₂ efflux after afforestation of a tropical savannah (Nouvellon Y.)

09.25 - Using remote sensing to map forest cover change in savanna woodland: A case study in Malawi (Woodhouse I.)

09.50 - Evaluating the use of commercial forest inventory data for aboveground biomass estimates in a REDD+ context (Maniatis D.)

10. 15 - On the causes of the recent greening of the Sahelian vegetation: a synthesis of research results (Brender P.)

10.40 – Coffee Break

11.00 Soil and Vegetation: Carbon and GHGs emissions in Africa (Chair: A. Thongo)

11.00 - Evaluating Vegetation-Climate-Soil Complexes to explain FAPAR IAV across sub-Saharan-Africa (Weber U.)

11.25 -Assessing forest structure and biomass from canopy aspect analysis on metric resolution remotely-sensed images (Couteron P.)

11.50 - Carbon, Nitrogen and Phosphorus Budget in Land Management Systems involving *Acacia Senegal* in drylands of North Kordofan, Sudan: Flow and Balances (El Tahir B.)

12.15 – Lunch

14.00 Biogeochemical Modelling (Chair: U. Weber)

14.00 - Estimating Primary Production for Africa - satellite or ecosystem model? (Ardö J.)

14.25 - E-Dendro. A soil-plant model operating at stand scale to assess the impact of silviculture on the biogeochemical cycles of planted forest ecosystems (Saint-André L.)

14.50 - A comparison of data- and process-oriented models for Africa (Jung M.)

15.15 – Coffee Break

15.40 Poster Session

(Poster authors are requested to stay close to their posters)

All sessions will be co-chaired by a Congolese Researcher from DGRST

17.00 – Close of the second day

PROGRAMME **Friday, 19 March 2010**

09.00 CDM and REDD in Africa (Chair: I. Woodhouse; co-chair: M. Diabangouaya)

09.00 - Carbon Market in Africa (Khouma M.)

09.30- Capabilities and Limitations of Landsat and Land Cover Data for Aboveground Woody Biomass Estimation of Uganda (Avitabile V.)

10.00 - Variability of carbon stocks in sub-Saharan Africa (Henry M.)

10.30 – Coffee Break

11.00 - Fast calibration of robust biomass equations. From the conceptual framework to the application using the CarboAfrica database on allometric equations (Saint-André L.)

11.30 - 'Rules of the game' and 'game tactics': elements for a National Forest Inventory to support REDD+ implementation under the UNFCCC (Maniatis D.)

12.00– Lunch

14.00 Demonstration projects and developing capacities in Africa (Chair: M. Khouma)

14.00 - Root plasticity of two eucalypt clones under drought conditions in Congo (Thongo A.)

14.30 - Our Ecosystems: A map tool for sharing (Woodhouse I.)

15.00 – Coffee Break

16.45 – Final remarks and Conference closure

PROGRAMME **Saturday - Sunday, 20-21 March 2010**

Field visit at the local scientific measuring stations of CarboAfrica.

All sessions will be co-chaired by a Congolese Researcher from DGRST